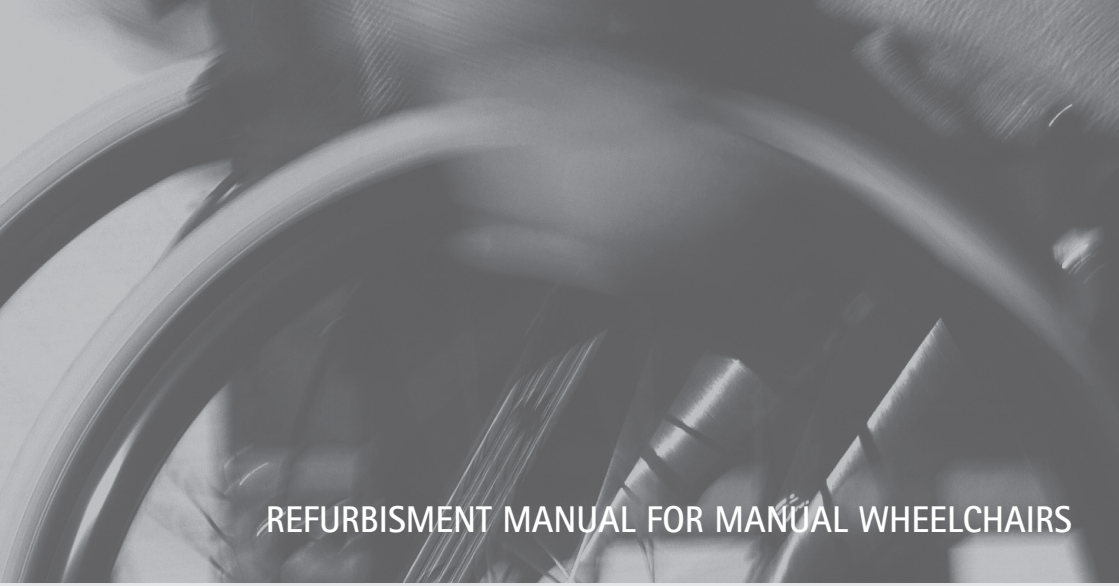
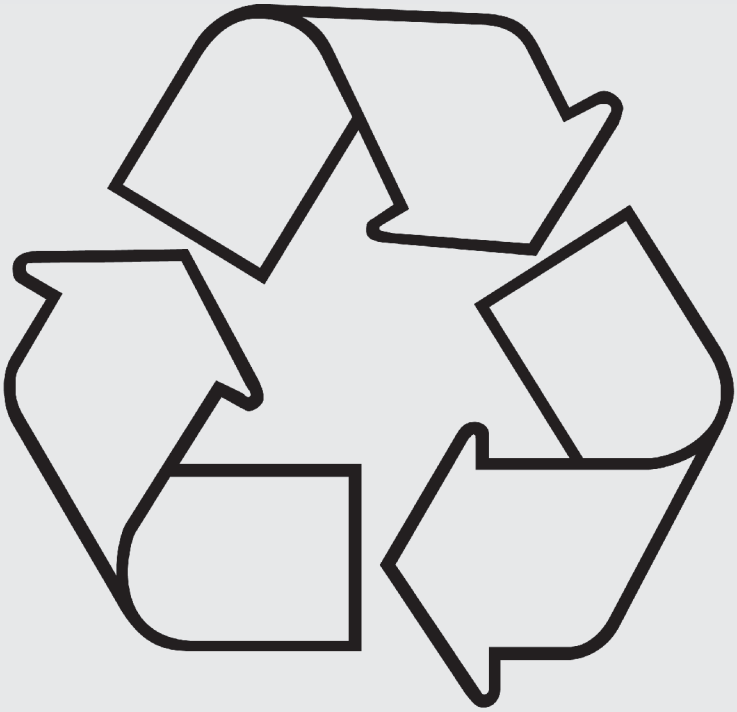


REFURBISMENT MANUAL FOR MANUAL WHEELCHAIRS



ALU_REHAB™

Thinking ahead – moving forward

The future is about taking care of the environment

Alu Rehab are working to reduce pollution throughout the process of production from the raw material, through development, to manufacture, waste management to refurbishment. The Netti III Comfort is the first Wheelchair to have been passed through EPD (Environmental Product Declaration), reducing effect on environment and energy consumption from manufacture to freight.

Thank you for choosing a product from ALU_REHAB™

Thinking ahead – moving forward

All Netti Wheelchairs are tested at TüV Product Service GmbH in Germany following the European Standard EN:12183:1999. Netti wheelchairs are tested and approved to crash test ISO/FDIS 7176/19

A

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Index

This Manual is divided into a three step procedure detailing servicing and refurbishment of the Wheelchair.

Cleaning procedure

- Wheelchair *page 4*
- Seating system *page 4*

Preparation of Netti Wheelchair for refurbishment

- Frame *page 5*
- Wheel *page 5*
- Arm Rest *page 6*
- Back Rest unit *page 6*
- Push Handles / Push Bow *page 6*
- Head Support *page 6*
- Seating Unit *page 7*
- Back and Tilt mechanism *page 7*
- Foot Support *page 7*
- Brakes *page7*
- Anti Tip Tubes *page 7*
- General Information *page 7*

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Receipt Form - paper *page 11*

Cleaning procedure for Wheelchair

1. Remove back cushion, seat cushion, high adjustable push handles and arm support before washing.
2. Clean back and seat cushion according to instruction (see table below).
3. Use machine cleaning or jet water washing to clean the wheelchair.
4. If jet water washing avoid pointing directly at bearings, quick release, gas springs and labels.
5. Use soft soap and degreasing agent where necessary.
6. Rinse wash using clean water to remove soap and degreasant.
7. Dry the wheelchair prior to greasing and preparation.
8. Use methylated spirit to remove any excess dirt or grease.

Cleaning procedure for Seating system

Read cleaning instruction label on cushions and covers for parts not in this table.

SEAT CUSHIONS

	UNO Seat	Vital Base Sit	Vital Base Venti	Vital Base Active (+)	Vital Base Royal (+)
CORE					
Wash	Hand wash 40°C	Hand wash 40°C	Hand wash 40°C	Hand wash 40°C	Hand wash 40°C
Disinfection	Virkon S Autoclave 105°C	Virkon S Autoclave 105°C	Virkon S Autoclave 105°C	Virkon S Autoclave 105°C	Virkon S Autoclave 105°C
Drying	Shake (clench) Air dry standing	Shake (clench) Air dry standing	Shake (clench) Air dry standing	Shake (clench) Air dry standing	Shake clench) Air dry standing
PROTECTION COVER	Not standard		Not standard		
Wash		Machine wash 95°C Wipe with soap		Machine wash 95°C Wipe with soap	Machine wash 95°C Wipe with soap
Drying		Spin-dry / Air-dry Do Not Tumble Dry		Spin-dry / Air-dry Do Not Tumble Dry	Spin-dry / Air-dry Do Not Tumble Dry
OUTER COVER					
Wash	Machine wash 60°C	Machine wash 60°C	Machine wash 60°C	Machine wash 60°C	Machine wash 60°C
Drying	Tumble Dry max 85°C	Tumble Dry max 85°C	Drying tumbler max 85°C	Spin-dry / Air-dry Do not tumble dry	Spin-dry / Air-dry Do not tumble dry

BACK REST CUSHIONS

CORE	All Alu Rehab Back Rest Cushions are processed in the same way.
Wash	No wash
Desinfection	Autoklave 105°C, Virkon S.
Drying	Shake (clench), Air Dry vertical.
OUTER COVER	Back Cushions are delivered with Clima Therm or Mars cover and are processed in the same way.
Wash	**Mashine wash 60°C.**
Drying	**Clima Therm: Spin-dry, Air Dry, do not tumble dry . Mars: Spin-dry, Air Dry, Tumble Dry max 85°C.**

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Preparation procedure

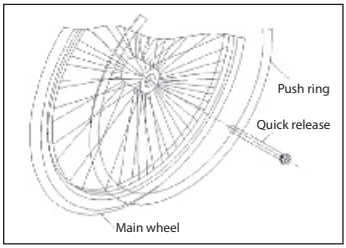
Before working on the wheelchair it is advisable to place the wheelchair on a raised table or bench giving a comfortable and correct position and avoiding any unnecessary lift. Use recomended tools and refer to the User Manual.

Clean the Wheelchair - see Cleaning Procedure - Page 4, difficult stains remaining after the cleaning process can be removed with methylated spirit.

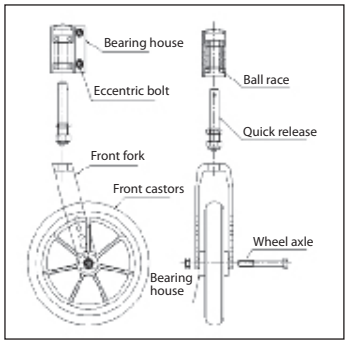
For Oiling or Greasing - remove cushions, head support, foot supports, main wheels, front castors, arm supports and any other accessories, and tilt the wheelchair rearwards on to the anti tip tubes.

Frame :
Check the frame for deformations, breakages, damage, abrasions, and missing screws, bolts and nuts, worn parts must be replaced, and oiled if necessary.

Main Wheel:
Main wheels and push rims can be cleaned with soapy water or methylated spirit. Clean the rims and check tyres for damage and cracks, replace if necessary. Oil the quick release/main wheel axle, check that the quick release locks the main wheel when mounted on the Wheelchair. To check that the main wheel is properly attached to the wheel hub release finger pressure from the end button and pull the main wheel.

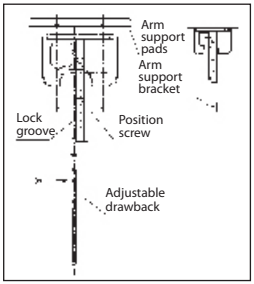


Front Castors and Front Forks:
Clean the front forks with methylated spirit, oil the quick release axle and check for play. If there is play in the quick release axle, remove, clean with methylated spirit and apply Thread Lock glue to secure the front fork within the bearing house. For correct manoeuvering check that the bearing house is mounted vertical in relation to the ground (see User Manual for further details).

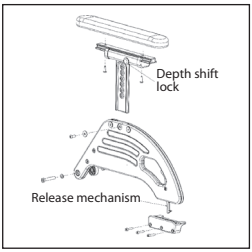


Dismantle the front castors from the front forks for cleaning with methylated spirit and check for play in the bearing. Replace the front castors if worn. Check that the quick release locks the front castor when mounted on the wheelchair (see User Manual for futher details).

Arm Supports:
Check that the lock track is cleaned and oiled with silicon spray. Ensure that the position screw is mounted and in the correct position. Check that the arm support pads are mounted with two screws on each side, check the screws are tight. Place the arm support in the cleaned arm support bracket, move the arm support pads forwards and rearwards slowly while screwing the lock screw inwards. When play in the arm supports has been removed, tighten the nut.

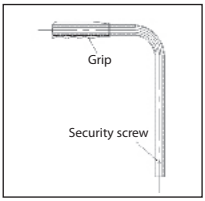


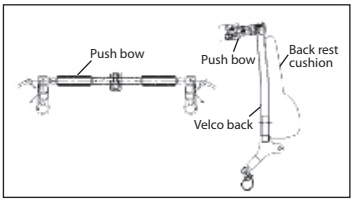
Arm Support Netti 4U CED:
Ensure that the lock and release mechanism works. Check depth/ length displacement of the arm support pads, tighten the screw in the arm support pads.



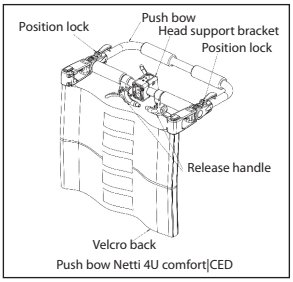
Back Rest unit:
Check velcro back for damage in sewing and lock. If necessary clean the velcro. Tighten the straps. Clean the cushions in accordance with label instructions.

Push Handles :
Check the push handles for wear and damage, replace the hand-grips if necessary. Ensure that the security screw is fitted. Check that the shelter studding in the plastic bracket is not de formed.





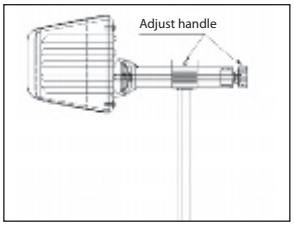
Push Bow:
Check all screws and fastening points. Remove loose screws, clean with methylated spirit and re-fit using Thread Lock glue, (full locking). Check that the tilt and back release handles are marked with correct symbols. Replace adjusting handles and wheels if necessary.



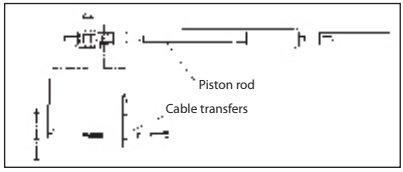
Push bow Netti 4U comfort|CED

If the cleaning routine has not been followed and driving handles/hand grips have been incorrectly cleaned, replace with new.

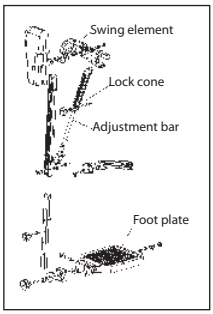
Head support:
Check the head support is clean and that there are no abrasions or tears. Replace the head support if the wheelchair is for a new user. Oil screws and wheels. Check and replace handles and wheels if necessary.



Seating unit:
Check the seating plate for breakage or similar and missing screws. Clean the seat cushion in accordance with cleaning instructions on the cushion label or replace. See cleaning procedure for seating system, Page 4).

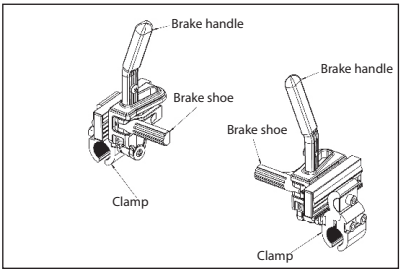


Back and Tilt mechanism:
Check the gas springs for damage. Adjust and oil cables and cable transfers. Clean and oil the piston rod on the gas spring.

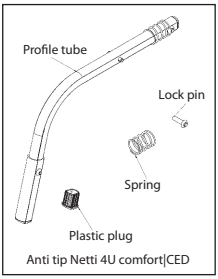


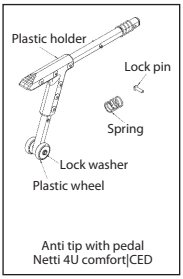
Foot Support:
Check and adjust wheel/handles, check that no adjustment screws are damaged or missing. Tighten loose screws/nuts and oil all moveable parts. Do not oil the adjustment bar in the mechanical lock. Check the mechanical lock on the angle adjustable foot supports and if necessary replace the lock cone. Remove and check fit of the foot supports to the frame. If necessary replace the foot support brackets.

Brakes:
Check that all screws are in place and tight. Replace brake parts where necessary.

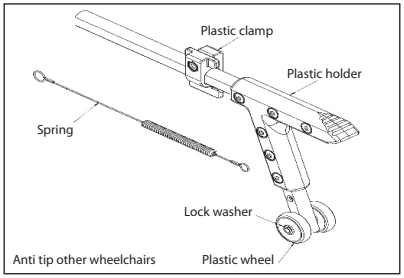


Anti Tip Tubes :
Check the engagement and disengagement of the anti tip tubes in the up and down positions. Adjust the anti tip tubes in relation to the main wheels, (see User Manual for correct adjustment).





General information:
Use Alu Rehab AS original parts only.
Use light bicycle oil on moveable parts and bearings.
Use HHS Lube (Wurth) on Gas Springs.
Do not oil the adjustment bar in the mechanical lock.
Recommended glue:
Lock-lite 2701 Thread Lock - full lock.
Lock-tita 243 Thread Lock - part lock.
Silver colour code: RAL 9007
Graphite grey colour code: RAL 7024
Black code colour: RAL 9005
Ensure that you always have the User Manual available



Function check before delivery to user/customer

Check that the wheelchair is adjusted in order.

Visual check:
- All pins, plugs and screws are correctly fitted.
- Check the sewing in the velcro back.
- Check that the seating plate is in good condition and correctly adjusted for seat depth.
- Check that the seat cloth is intact for Netti Svipp and Netti Svipp comfort .

Function	Model	Test/check	Done/OK
Tilt	Netti III comfort, Netti II, Netti Mini, Netti 4U comfort|CED	Move the tilt functions in both outer positions and check there is free movement. Check that cables run free of obstructions. Check that the tilt function is marked with correct labels.	
Back regulation	Netti III comfort, Netti I comfort, Netti 4U comfort|CED, Netti Mini, Netti Svipp comfort	Move the back regulation in both outer positions and check there is free movement. Check that cables run free of obstructions. Check that the tilt fuction is marked with correct labels	
Stiffening stay	Netti Svipp, Netti Svipp comfort	Check that the stiffening stay can be opened and locked with the cylinder bush.	
Push handles	All wheelchairs, except Netti 4U comfort|CED	Check hand grips are free from abrasion and damage. Check driving handles adjust freely and lock in position. Check the stop screw and plate spring are correctly fitted.	
Push bow	Netti 4U comfort|CED	Check push bow is secure and locks in position.	
Head support	All wheelchairs, except Netti Svipp and Netti I	Check that the small set screw in the center on top of the head support adapter is tightened and that the plate spring is correctly mounted. Check the head support is clean and intact and that adjustment handles function correctly.	
Head support adapter	Netti Svipp comfort	Check that the head support fits correctly on and off.	

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Function	Model	Test/check	Done/OK
Arm support	All wheelchair models	Check that the arm support pads match and are adjusted similarly. Check that the upper adjustment locks correctly.	
	Netti I, Netti I comfort, Netti II and Netti III comfort	Adjust the plastic screws in the arm support bracket and tighten the lock nut, the arm support should slide easily within the arm support. The stop screw should be adjusted to the same height on both sides.	
	Netti 4U comfort|CED	The slide mechanism should operate easily. Check that the arm support locks when swung forward.	
	Netti Svipp and Netti Svipp comfort	Check that the cloth protector locates within the lock track when swung forward.	
Bearing housing	All models except Netti 4U comfort|CED	Ensure the bearing housing is adjusted in position vertical to the horizontal ground.	
Front castors	All wheelchair models	The front castors should lock in the secure position, the quick release should operate freely on and off. Check there is minimum free play in the quick release lock. Check both front castors are mounted in the same hole position on the front forks.	
Main wheel	All wheelchair models	Check that the main wheels lock securely and that the quick release operates freely on and off. Check there is minimum free play in the quick release lock. Check both main wheels are mounted in the same hole position in the wheelframe bracket. There should be no free play in the push rims.	

Function	Models	Test/Check	Done/OK
Extension piece foot support	All wheelchair models	The extension piece should be securely fastened and adjusted equally both sides.	
Foot support angle adjustable	Netti I comfort, Netti III comfort, Netti 4U comfort|CED	Check lock into desired angle and easy placement on and off. There should be no free play in the locking bracket. Check easy movement of length adjustment. The calf supports should be equal on both sides. The knee upholstery should be clean.	
Foot support universal	All models, except Netti I comfort, Netti III comfort, Netti 4U comfort|CED	Check easy placement on and off. There should be no free play in the locking bracket. Check easy movement of length adjustment.	
Anti tip tubes	All wheelchair models	Check that the adjustment is equal on both sides and that the position is correct relative to the main wheels. Check engagement and disengagement of the anti tip tubes up and down. Check that the anti tip tubes are correctly labeled.	
Cross bar/ folding	Netti Svipp, Netti Svipp comfort	Check that the cross bar will adjust for easy pushing and check position lock. Check there is no obstruction preventing folding of the wheelchair.	
Directional stability	All wheelchair models	Push the wheelchair with equal power on both sides of the push bar, allow the wheelchair to roll forward freely. The wheelchair should roll forwards in a straight line, if not, adjust the front castors and main wheels, (see User Manual).	

Ensure that you always have the User Manual available.

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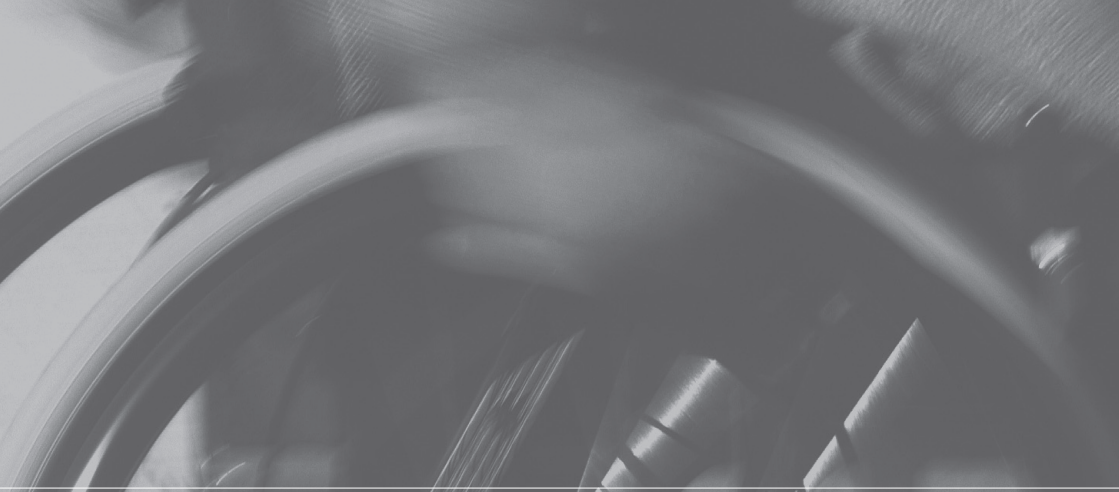
Receipt form for executed refurbishment procedure

Frame number/serial number:

Procedure executed	OK
• Cleaning procedure	
• Preparation procedure	
• Function control	

All the points above have been executed and the wheelchair made ready for delivery

Datum: Signature:



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